

MULTIPLE FLOATING GUARD RING EDGE TERMINATION FOR SILICON
CARBIDE DEVICES AND METHODS OF FABRICATING SILICON CARBIDE
DEVICES INCORPORATING SAME

Abstract of the Disclosure

5 Edge termination for silicon carbide devices has a plurality of concentric
floating guard rings in a silicon carbide layer that are adjacent and spaced apart from a
silicon carbide-based semiconductor junction. An insulating layer, such as an oxide,
is provided on the floating guard rings and a silicon carbide surface charge
compensation region is provided between the floating guard rings and is adjacent the
10 insulating layer. Methods of fabricating such edge termination are also provided.